

ABSTRACT

A micro-actuator having a stage capable of a see-saw motion and a method for its manufacture are disclosed. In the micro-actuator according to the present invention, a plurality of parallel driving comb-type electrodes are formed on the bottom of the stage, and a plurality of parallel fixed comb-type electrodes are formed on a base plate. At both sides of the stage is a torsion bar that enables the see-saw motion. The torsion bar is supported by a frame comprised of a first frame layer and a second frame layer. The torsion bar and the first frame layer form one body. The first and second frame layers are bonded by a metal eutectic bonding layer between metal layers.